Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quiz 3** Solve Quadratic Equations by Factoring

**Directions:** Show all of your work!

|  |  |
| --- | --- |
| 1) Find the solution of the functions y = 3x2 – 13x – 10. | 2) The expressions  and  are equivalent when b is equal to what value(s)? |
| 3) What is the quadratic equation with the solution set {4, –12}? | 4) What is the ***sum*** of the solutions to the equation?  12d2 + 14d – 6 |

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VANG **f(x) = -2x2 + 9x + 5**

|  |  |
| --- | --- |
| **Verbal:** (include the axis of symmetry, vertex (max or min), y-intercept, and any x-intercepts/solutions) | **Analytical:** (**must show your work** for the axis of symmetry, vertex, y-intercept, and any x-intercepts) |
| **Numerical:** (include at least 5 points and label the vertex, y-intercept, and any x-intercepts) | **Graphical:** (label the axis of symmetry, vertex, y-intercepts, and any x-intercepts) |

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